

BRUHATH BANGALORE MAHANAGARA PALIKE**Rajarajeshwari Nagar Zone****O/o Executive Engineer(Ele), Rajarajeshwari nagar Zone, BBMP, Bangalore****Bill of Quantities (BOQ)****Memorandum Showing the Specifications, Quantities and Rates of items to be Executed****Name of the Work:- Replacement of damaged UG Cable, Panel Board, poles and fittings etc at J P park ward No. 17 Of RR Nagara Zone****Tender Number: BBMP/2021-22/EL/WORK_INDENT50190****Name of the Contractor: SUMALATHA R D (IMPANA ENTERPRISES)**

SNo	Approved Qty	Item Name	Sanctioned Est Rates			Approved Tender Rates		
			Unit	Estimate Rate	Total Amount	Rate in Figure	Rate in Words	Total Amount
1	200	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 1.5 sqmm	Mtr.	20.5	4100	18.0	Rupees Eighteen Only	3600.00
2	200	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring.4 sqmm	Mtr.	9	1800	8.0	Rupees Eight Only	1600.00
3	20	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40 Amps DP	Each	1336	26720	1300.0	Rupees One Thousand Three Hundred Only	26000.00
4	10	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.60 to 70Amps	Each	4200	42000	4000.0	Rupees Four Thousand Only	40000.00
5	10	Supplying and fixing Microprocessor based Electronic timer (without contactor, Din Mounting using necessary bolts, nuts and washers etc.,) 3-120sec setting.	Each	1925	19250	1850.0	Rupees One Thousand Eight Hundred and Fifty Only	18500.00
6	700	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 10 sqmm	Mtr	130	91000	120.0	Rupees One Hundred and Twenty Only	84000.00
7	700	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct. 6 sqmm to 16 sqmm	Mtr	11.88	8316	11.0	Rupees Eleven Only	7700.00

 R.D
Contractor


Executive Engineer (ELE) BR
Rajarajeshwari Nagar Zone
Bruhat Bangalore Mahanagara Palike

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			Unit	Estimate Rate	Total Amount	Rate in Figure	Rate in Words	Total Amount
8	650	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) In soil (ordinary)	Mtr	76	49400	70.0	Rupees Seventy Only	45500.00
9	60	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 10 sqmm	Each	8	480	7.0	Rupees Seven Only	420.00
10	40	16 sqmm	Each	12.44	497.6	12.0	Rupees Twelve Only	480.00
11	8	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 63 Amps	Each	227	1816	220.0	Rupees Two Hundred and Twenty Only	1760.00
12	10	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar	Each	1917	19170	1900.0	Rupees One Thousand Nine Hundred Only	19000.00
13	12	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Post Top Lantern with 35 watts	No	6400	76800	6000.0	Rupees Six Thousand Only	72000.00

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14	12	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Streetlight 25watts	No	1840	22080	1800.0	Rupees One Thousand Eight Hundred Only	21600.00
15	40	Supplying & fixing LED Drivers suitable for 5700K LED fitting Outdoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply a) 25W 5700K suitable for outdoor LED fitting.	Each	1198	47920	1050.0	Rupees One Thousand and Fifty Only	42000.00
16	8	b) 90W 5700K suitable for outdoor LED fitting.	Each	3345	26760	3200.0	Rupees Three Thousand Two Hundred Only	25600.00
17	55	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole. Upto 5Mtr street light pole.	No	550	30250	460.0	Rupees Four Hundred and Sixty Only	25300.00
		Total Amount			468359.6			435060.00
		GST Applicable @12%						52207.20
		Total Amount(Including GST)						487267.20
		Tender premium						-7.11%

Certificate:-

- I agree to Execute this work at the Rates mentioned above in the Schedule-B/BOQ.
- I am ready to carry out the work as per the directions of Engineer-in-Charge of Work.
- I am ready to carry out the work as per the tender terms and conditions.

Seal & Signature of Contractor


Executive Engineer(Ele),
Bruhat Bangalore Mahanagara Palike,
RR Nagar Zone

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